

Changing Matrix RO Control Box to Accommodate Larger OIT		TSB 2012007
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TECHNICAL SERVICE BULLETIN

ISSUE

The manufacturer of the Operator Interface Terminal (OIT) touch-screen for the Matrix RO has discontinued the model originally used. The compatible replacement being shipped with all current Matrix ROs is slightly larger. If any of the original smaller size OITs have to be replaced, the hole in the control box door will have to be enlarged to accommodate it. The following details the measurements and instructions for making this modification.

There is very little allowable variance with the hole size due to the buttons in the door, as well as the cable connections for the OIT, so **these cuts must be precise**. Read this Technical Service Bulletin in its entirety for a clear understanding of the new hole dimensions and the cuts that will be needed.

You will need the following:

1. Ruler or tape measure
2. Marker
3. A fine cutting tool such a Dremel tool with a diamond blade
4. Sand paper

FOR REFERENCE:



The original, smaller OIT:

- OIT size:
Height 6 7/8"
Width 9 1/8" wide
- Hole in the control box door for this OIT:
Height 6 1/2"
Width 8 5/8"



The new, larger OIT:

- OIT size:
Height 8 3/8"
Width 10 5/8"
- Hole in the control box door for this OIT:
Height 7 7/8"
Width 10 1/4"

NOTE

The functionality and the program is the same for the two OITs, only the size is different. Connectivity to the inside of the control box is also the same. Take note of the connection points when removing the OIT for replacement.

Also, make sure all wires and components on the inside of the control box door are not in the way and in danger of being damaged by the cuts to modify the hole for the OIT.

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SOLUTION



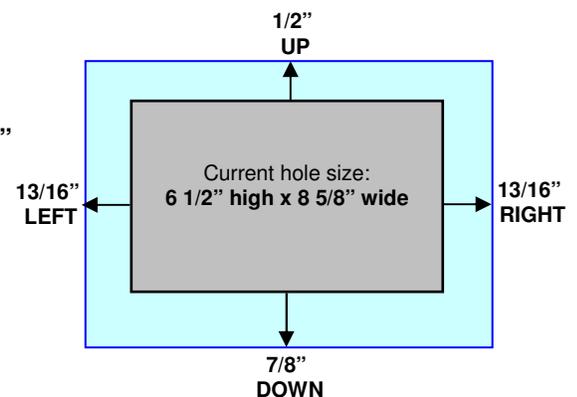
WARNING

To avoid electrical shock do not open or make changes in the control box without first turning the Matrix RO OFF and unplugging from the electrical outlet.

1. Turn the power **OFF** to the Matrix RO.
2. Unplug the Matrix RO from the electrical outlet
3. Open the control box cover
4. Disconnect and remove the original, smaller OIT
5. Make careful measurements and draw cut lines on the control box using a marker. From the current hole make and mark the following measurements for cut lines:
 - From the top of the current hole measure **UP by 1/2"**
 - From the bottom of the current hole measure **DOWN by 7/8"**
 - From the right side of the current hole, measure **RIGHT by 13/16"**
 - From the left side of the current hole, measure **LEFT by 13/16"**
6. Final dimensions of the new hole cut lines should be:

Height 7 7/8" x Width 10 1/4" wide

 Verify and make any necessary adjustments.



7. Make the following height cuts in this order.
 - First Cut: from the top of the hole **cut UP 1/2"**
 - Second Cut: from the bottom of the hole **cut DOWN 7/8"**
8. Make the following width cuts in this order.
 - Third Cut: from the right side of the hole **cut RIGHT 13/16"**
 - Fourth Cut: from the left side of the hole **cut LEFT 13/16"**

9. Sand down any rough edges of the new hole
10. Measure the new hole which should be:

Height 7 7/8" x Width 10 1/4"

 Verify and make any necessary adjustments.
11. Insert the new OIT and reconnect.
12. Close the control box cover.

